

ABSTRACT

The present invention relates to a genotyping kit for diagnosing patients infected with human papillomavirus (HPV), and a method for diagnosis of HPV infection by genotyping specimen DNA isolated from the patients using the said kit. The genotyping kit of the invention comprises a DNA chip with probes that have nucleotide sequences complementary to DNA of HPV, primers for amplifying the DNA of a sample by PCR, and means for labeling hybridized sample DNA with the DNA chip. The method for diagnosis of HPV infection comprises the steps of amplifying DNA obtained from a sample using the primers of the kit, applying the amplified DNA to the DNA chip and hybridizing the amplified DNA and the probes of the DNA chip, and detecting DNA bound on the surface of the DNA chip by labeling hybridized DNA. In accordance with the invention, the genotyping kit may be practically applied to the early diagnosis, prevention and treatment of cervical cancer, since the kit can easily diagnose HPV infection, and can exactly determine the genotype of the HPV.

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